

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P476222

Luminaire Tested: **14GR-LD5-60-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476222  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-60-F125-UNV-L835-CD1-U  
Description: GR 1'X4' LED TROFFER w/ F125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6146.3 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

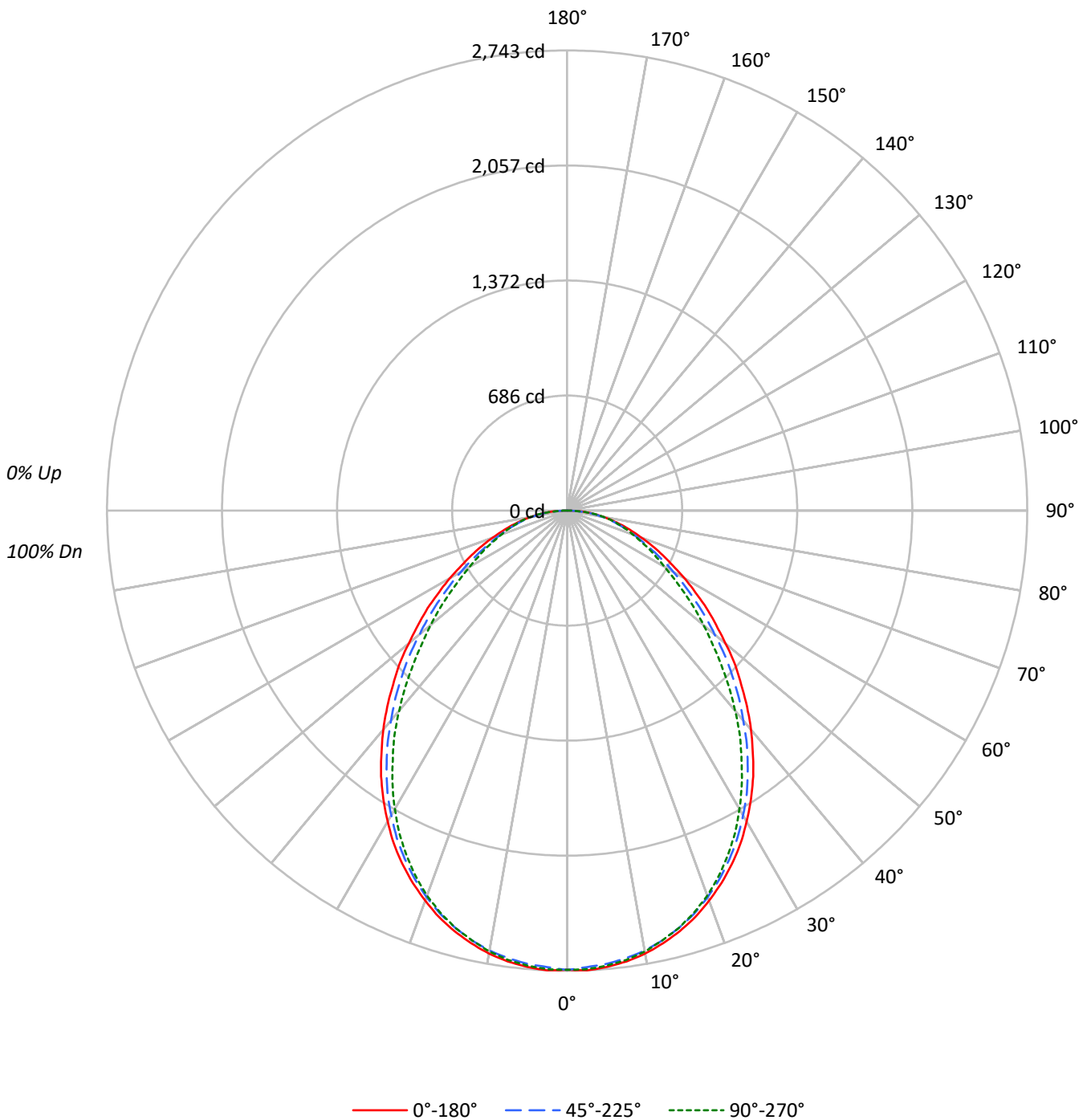
Input Watts (W): 52.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7367	7367	7367
5°	7376	7327	7353
10°	7327	7277	7292
15°	7231	7172	7172
20°	7087	7018	6994
25°	6901	6801	6730
30°	6650	6519	6383
35°	6351	6166	5954
40°	5991	5740	5473
45°	5587	5297	4939
50°	5162	4803	4444
55°	4763	4354	3998
60°	4344	3935	3610
65°	3993	3572	3411
70°	3706	3341	3275
75°	3538	3246	3304
80°	3465	3268	3443
85°	3560	3214	3430



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.3	4.2
10°-20°	727.1	11.8
20°-30°	1054.7	17.2
30°-40°	1171.0	19.1
40°-50°	1071.4	17.4
50°-60°	834.6	13.6
60°-70°	570.2	9.3
70°-80°	340.6	5.5
80°-90°	118.4	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2040.0	33.2
0°-40°	3211.1	52.2
0°-60°	5117.0	83.3
0°-90°	6146.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6146.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2738	2738	2738	2738	2738	
5°	2731	2725	2712	2726	2722	259
15°	2596	2589	2574	2584	2574	731
25°	2324	2314	2290	2284	2267	1069
35°	1933	1916	1877	1838	1812	1206
45°	1468	1448	1392	1327	1298	1134
55°	1015	984	928	873	852	907
65°	627	603	561	536	536	624
75°	340	326	312	318	318	361
85°	115	110	104	114	111	124
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2737.6	2737.6	2737.6	2737.6	2737.6
2.5°	2743.3	2736.2	2723.6	2737.6	2736.2
5°	2730.6	2725.0	2712.3	2726.4	2722.2
7.5°	2710.9	2705.3	2691.2	2706.7	2701.1
10°	2681.4	2674.4	2663.1	2674.4	2668.8
12.5°	2642.0	2635.0	2623.8	2633.6	2623.8
15°	2595.6	2588.6	2574.5	2584.4	2574.5
17.5°	2540.8	2531.0	2519.7	2521.1	2512.7
20°	2474.7	2464.9	2450.8	2450.8	2442.4
22.5°	2403.0	2393.2	2376.3	2370.7	2359.4
25°	2324.3	2314.4	2290.5	2283.5	2266.6
27.5°	2238.5	2223.0	2199.1	2183.7	2166.8
30°	2140.1	2127.4	2097.9	2075.4	2054.3
32.5°	2040.2	2027.6	1993.8	1960.1	1937.6
35°	1933.4	1916.5	1877.1	1837.8	1812.4
37.5°	1818.1	1804.0	1759.0	1711.2	1691.5
40°	1705.6	1687.3	1633.9	1584.7	1557.9
42.5°	1587.5	1567.8	1514.4	1458.1	1428.6
45°	1468.0	1448.3	1392.0	1327.3	1297.8
47.5°	1356.9	1331.6	1272.5	1207.8	1172.7
50°	1233.1	1212.0	1147.4	1085.5	1061.6
52.5°	1117.8	1098.2	1037.7	977.2	954.7
55°	1015.2	984.3	928.0	873.2	852.1
57.5°	905.5	880.2	826.8	774.8	753.7
60°	807.1	787.4	731.2	686.2	670.7
62.5°	710.1	694.6	642.6	608.8	599.0
65°	627.1	603.2	561.0	535.7	535.7
67.5°	548.4	524.5	487.9	478.1	469.6
70°	471.0	452.8	424.6	416.2	416.2
72.5°	402.1	386.7	367.0	364.2	369.8
75°	340.3	326.2	312.2	317.8	317.8
77.5°	278.4	268.6	262.9	265.8	271.4
80°	223.6	216.5	210.9	217.9	222.2
82.5°	171.5	164.5	160.3	170.1	168.7
85°	115.3	109.7	104.1	113.9	111.1
87.5°	57.6	54.8	45.0	50.6	43.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)